

B1 wherein the alloy comprises a microstructure that is essentially free of L12 – structured phase at a temperature greater than about 1000°C.

**Paragraph beginning on page 2, line 15**

B2 The present invention provides several embodiments that address this need. One embodiment is an alloy comprising

palladium, in an amount ranging from about 1 atomic percent to about 41 atomic percent;  
platinum, in an amount that is dependent upon the amount of palladium, such that

- a. for the amount of palladium ranging from about 1 atomic percent to about 14 atomic percent, the platinum is present up to about an amount defined by the formula  $(40 + X)$  atomic percent, wherein X is the amount in atomic percent of the palladium, and
- b. for the amount of palladium ranging from about 15 atomic percent up to about 41 atomic percent, the platinum is present in an amount up to about 54 atomic percent; and

the balance comprising rhodium, wherein the rhodium is present in an amount of at least 24 atomic percent;

wherein the alloy comprises a microstructure that is essentially free of L12 – structured phase at a temperature greater than about 1000°C.

**Paragraph beginning on page 2, line 19**

B3 A second embodiment is an alloy comprising from about 5 atomic percent to about 40 atomic percent platinum and the balance comprising rhodium, wherein the alloy further comprises a microstructure that is essentially free of L12 – structured phase at a temperature greater than about 1000°C.

**Paragraph beginning on page 2, line 23**

B4 A third embodiment is a gas turbine engine component comprising an alloy, the alloy comprising:

palladium, in an amount ranging from about 1 atomic percent to about 41 atomic percent;  
platinum, in an amount that is dependent upon said amount of palladium, such that

- a. for said amount of palladium ranging from about 1 atomic percent to about 14 atomic percent, said platinum is present up to about an amount defined by the formula  $(40 + X)$  atomic percent, wherein X is the amount in atomic percent of said palladium, and
- b. for said amount of palladium ranging from about 15 atomic percent up to about 41 atomic percent, said platinum is present in an amount up to about 54 atomic percent;